

AMENDMENTS TO THE CLAIMS:

Claim 1 (Previously amended):

An isolated nucleic acid coding for a human MiRP1 polypeptide, said polypeptide having the amino acid sequence set forth in SEQ ID NO:2 or an isolated nucleic acid which is the full complement of said nucleic acid coding for a human MiRP1 polypeptide.

Claims 2-4 canceled.

Claim 5 (Previously amended):

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An allele specific probe or primer which hybridizes to a nucleic acid encoding a polypeptide of SEQ ID NO:2 under stringent hybridization conditions, wherein said stringent hybridization conditions comprise a temperature of at least 45°C with a salt concentration less than 200 mM and the allele-specific probe or primer hybridizes to said nucleic acid at a polymorphic site selected from the polymorphic sites consisting of nucleotide numbers 95, 98, 234 and 243 of SEQ ID NO:1

Claim 6 (Original):

The probe or primer of claim 5 that is 10-100 bases long.

Claim 7 (Currently amended):

The probe or primer of claim 6 that comprises at least ten contiguous bases of nucleic acid encoding a polypeptide of SEQ ID NO:2 or at least ten contiguous bases of nucleic acid which is the full complement of said contiguous bases of nucleic acid encoding a the polypeptide of SEQ ID NO:2.

Claim 8 (Canceled).

Claim 9 (Previously amended):

A primer suitable for performing a single base extension reaction across a polymorphic site selected from the polymorphic sites consisting of nucleotide numbers 95, 98, 234 or 243 of SEQ ID NO:1, which primer hybridizes to a subsequence of SEQ ID NO:1 or the complement thereof, which subsequence terminates at a base immediately adjacent to and 5' from a base selected from the group consisting of nucleotide numbers 95, 98, 234 or 243.

Claims 10-24 canceled.

Claim 25 (Currently amended):

An *in vitro* cell transfected with the ~~DNA~~ nucleic acid of claim 1.

Claim 26 (Previously amended):

An *in vitro* cell transfected with the isolated nucleic acid of claim 70.

Claim 27 (Currently amended):

A vector comprising the isolated ~~DNA~~ nucleic acid of claim 1.

Claim 28 (Previously amended):

A vector comprising the isolated nucleic acid of claim 70.

Claim 29 (Previously amended):

An *in vitro* cell transfected with the vector of claim 27.

Claim 30 (Previously amended):

An *in vitro* cell transfected with the vector of claim 28.

Claims 31-68 canceled.

Claim 69 (Previously added):

The nucleic acid of claim 1 which is an RNA.

Claim 70 (Currently amended):

An isolated nucleic acid coding for a mutated form of the MiRP1 polypeptide sequence set forth in SEQ ID NO:2, wherein said mutated form comprises ~~a mutation selected from the group consisting of:~~ SEQ ID NO:2 except for an amino acid change selected from the group consisting of an Ala at amino acid 8; a Glu at amino acid 9; a Thr at amino acid 54; and a Thr at amino acid 57.

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Claim 71 (Currently amended):

An isolated nucleic acid ~~coding for~~ comprising (a) a mutated form of the nucleotide sequence set forth in SEQ ID NO:1 or (b) ~~a nucleic acid which is~~ the full complement of said mutated form ~~nucleic acid~~, wherein said mutated form comprises nucleotides 74-442 of SEQ ID NO:1 having except for a nucleotide change selected from the group consisting of: an A to a G at nucleotide 95; a C to a G at nucleotide 98; a T to a C at nucleotide 234; and a T to a C at nucleotide 243.

Claim 72 (Previously amended):

An allele specific probe or primer which hybridizes to the DNA of claim 70 under stringent hybridization conditions, wherein said stringent hybridization conditions comprise a temperature of at least 45°C with a salt concentration less than 200 mM, wherein the allele specific probe or primer hybridizes to said DNA at a polymorphic site selected from the group consisting of nucleotide numbers 95, 98, 234 and 243.

Claim 73 (Previously added):

The isolated nucleic acid of claim 72 which is an RNA.

Claim 74 (Previously amended):

An isolated nucleic acid encoding a human MiRP1 polypeptide having (a) the nucleotide sequence set forth in SEQ ID NO:1 or (b) a nucleic acid which is the full complement to said sequence.


Claim 75 (Currently amended):

~~An~~ The isolated nucleic acid ~~as in~~ of claim 74 which is an RNA.

Claim 76 (Previously added):

An isolated nucleic acid which comprises nucleotides 24 to 442 of SEQ ID NO:1.

Claim 77 (New):

 An allele specific probe or primer which hybridizes to a nucleic acid encoding a polypeptide of SEQ ID NO:2 under stringent hybridization conditions, wherein said stringent hybridization conditions comprise a temperature of at least 45°C with a salt concentration less than 200 mM and the allele-specific probe or primer hybridizes to said nucleic acid at a polymorphic site selected from the polymorphic sites consisting of nucleotide numbers 95, 98, 234 and 243 of SEQ ID NO:1 and wherein said probe or primer is greater than 10 nucleotides in length.

Claim 78 (New):

The probe or primer of claim 77 that is 11-100 bases long.

Claim 79 (New):

The probe or primer of claim 78 that comprises at least eleven contiguous bases of nucleic acid encoding a polypeptide of SEQ ID NO:2 or at least eleven contiguous bases of nucleic acid which is the full complement of said contiguous bases of nucleic acid encoding a polypeptide of SEQ ID NO:2.

Claim 80 (New):

A primer suitable for performing a single base extension reaction across a polymorphic site selected from the polymorphic sites consisting of nucleotide numbers 95, 98, 234 or 243 of SEQ ID NO:1, which primer hybridizes to a subsequence of SEQ ID NO:1 or the complement thereof, which subsequence terminates at a base immediately adjacent to and 5' from a base selected from the group consisting of nucleotide numbers 95, 98, 234 or 243 and wherein said probe or primer is greater than 10 nucleotides in length.

Claim 81 (New):

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An allele specific probe or primer which hybridizes to the DNA of claim 70 under stringent hybridization conditions, wherein said stringent hybridization conditions comprise a temperature of at least 45°C with a salt concentration less than 200 mM, wherein the allele specific probe or primer hybridizes to said DNA at a polymorphic site selected from the group consisting of nucleotide numbers 95, 98, 234 and 243 and wherein said probe or primer is greater than 10 nucleotides in length.

Claim 82 (New):

The probe or primer of claim 81 which is an RNA and wherein said probe or primer is greater than 10 nucleotides in length.
